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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/084,774	02/26/2002	Paul Gothard Knutson	PU020046	1807

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EXAMINER

NGUYEN, TU X

ART UNIT	PAPER NUMBER
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2618

DATE MAILED: 04/07/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/084,774

Applicant(s)

KNUTSON ET AL.

Examiner

Tu X. Nguyen

Art Unit

2684

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 26 February 2003.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-15 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1,2,6,7 and 11-15 is/are rejected.
- 7) ☒ Claim(s) 3-5 and 8-10 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-2, 6-7 and 12-15, are rejected under 35 U.S.C. 102(e) as being anticipate by Yaguchi Sadao (JP 11-112376).

Regarding claim 1, Yaguchi disclose an outdoor unit of a satellite television ground system comprising:

converter circuitry (see fig.1, 200)operative to receive a first satellite television signal and to block down convert the first satellite television signal;

coarse tuning circuitry (see 214, fig.1, and abstract) in communication with said converter circuitry and operative to coarse tune the first block downconverted satellite television signal; and

oscillator circuitry (see 213, fig.1) in communication with said converter circuitry and said coarse tuning circuitry, and operative to generate and provide an oscillator signal to said converter circuitry for block downconverting the first satellite television signal, and to generate and provide the oscillator signal to said coarse tuning circuitry for coarse tuning the first downconverted satellite television signal.

Regarding claim 6, Yaguchi disclose an outdoor unit for a satellite television ground system comprising:

means for receiving and block downconverting a first satellite television signal (see 200, fig.1);

means, in communication with said means for receiving and block downconverting a first satellite television signal, for coarse tuning (see 214, fig.1) said first block downconverted satellite television signal; and

means for generating and providing an oscillator signal (see 213, fig.1) to said means for block downconverting a first satellite television signal for block downconverting the first satellite television signal and for generating and providing the oscillator signal to said means for coarse tuning said first block downconverted satellite television signal for coarse tuning the first downconverted satellite television signal.

Regarding claim 11, Yaguchi disclose an outdoor unit of a satellite television ground system, a method of processing a satellite television signal comprising the steps of:

receiving a first satellite television signal (see abstract);
block downconverting the first satellite television signal (see 200);
coarse tuning (see 214) the first block downconverted satellite television signal;
generating an oscillator signal (see 213); and
utilizing the oscillator for block downconverting and coarse tuning the first satellite television signal (see 200).

Regarding claims 2, 7, Yaguchi disclose oscillator circuitry comprises a frequency locked oscillator (see 214, fig.1).

Regarding claims 13-14, Yaguchi disclose receiving a second satellite television signal (see abstract, "operation of a channel selection" corresponds to "second satellite signal);

block downconverting (see 200, fig.1) the second satellite television signal;
coarse tuning the second block downconverted satellite television signal (see 214, fig.1); and

utilizing the oscillator (see 213, fig.1) for block downconverting and coarse tuning the second satellite television signal.

Regarding claim 15, Yaguchi discloses receiving a master oscillator signal (see abstract, "operation of a channel selection" corresponds to "second satellite signal) from an indoor unit of the satellite ground system; and utilizing the master oscillator signal to generate the oscillator (see 214, fig.1).

Allowable Subject Matter

Claims 3-5 and 8-10 objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The following is a statement of reasons for the indication of allowable subject matter:

Regarding dependent claims 3 and 8, the prior arts fail to teach "a first signal combiner in communication with said first frequency synthesizer and said converter circuitry, said first signal combiner operative to receive said first block downconverted

Art Unit: 2618

signal from said converter circuitry and said first synthesized signal from said first frequency synthesizer, and to produce a first combined signal", as cited in the claim.

Regarding dependent claims 4 and 9, the prior arts fail to teach "said converter circuitry is operative to separately receive and block downconvert first and second satellite television signals, and said coarse tuning circuitry is operative to separately coarse tune the first and second satellite television signals", as cited in the claim.


Regarding dependent claim 12, the prior arts fail to teach "combing the frequency multiplier signal with the first satellite television signal", as cited in the claim.

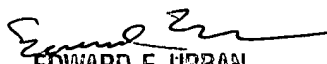
Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tu Nguyen whose telephone number is 571-272-7883. The examiner can normally be reached on Monday through Friday from 6:30AM-2:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edward Urban, can be reached at (571) 272-7899. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).


March 13, 2006


EDWARD F. URBAN
SUPERVISORY PATENT EXAMINER
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